Amendments to the claims:

This listing of the claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1. (Currently amended) A method for the encapsulation of a nuclear material, comprising: ~~which comprises~~

treating the nuclear material with an encapsulant which comprises a cementitious material; and

curing said cementitious material[[.]];

wherein said nuclear material comprises uranium metal, Magnox fuel elements, and/or fuel element debris.

2. (Canceled)

3. (Currently amended) A method as claimed in claim 1 ~~or 2~~ wherein the cementitious material comprises Portland Cement.

4. (Currently amended) A method as claimed in claim 1 ~~any one of claims 1, 2 or 3~~ wherein the cementitious material ~~additionally~~ further comprises ~~one or more~~ at least one inorganic filler, the at least one inorganic filler comprising ~~fillers selected from~~ blast furnace slag, pulverised fuel ash, hydrated lime, finely divided silica, limestone flour ~~and~~ and/or organic and inorganic fluidising agents.

5. (Currently amended) A method as claimed in claim 1 ~~any preceding claim~~ wherein the cementitious material is provided in the form of an aqueous composition.

6. (Currently amended) A method as claimed in claim 5 wherein the water content of the composition is ~~in the region of~~ about 40-50% (w/w).

7. (Currently amended) A method as claimed in claim 1 further comprising:

placing the nuclear material in a container before treating the nuclear material and curing the cementitious material ~~any preceding claim wherein the nuclear material is placed in an appropriate container and a cementitious material is added and allowed to at least partially cure~~.

8. (Original) A method as claimed in claim 7 wherein elements of the nuclear material are either arrayed in the container or mixed haphazardly.

9. (Currently amended) A method as claimed in claim 7 further comprising:

capping the container after the cementitious material has at least partially cured ~~or 8 wherein the container is subsequently capped~~.

10. (Currently amended) A method as claimed in claim 7~~, 8 or 9~~ wherein the container comprises a drum having a capacity ~~in the region~~ of about 500 litres.

11. (Currently amended) A method as claimed in claim 10 wherein ~~the~~ an amount of nuclear material stored in the container is up to about 52 elements.

12. (Currently amended) A method as claimed in claim 11 wherein the number of elements is ~~of the order of~~ about 22.

13. (Currently amended) A method ~~for the storage~~ of storing a nuclear material comprising:

encapsulating the nuclear material in a cured cementitious material, wherein said nuclear material comprises uranium metal, Magnox fuel elements, and/or fuel element debris ~~which comprises encapsulation of the material in a cured cementitious material~~.